

<b>L Numb r</b>	<b>Hits</b>	<b>S arch T xt</b>	<b>DB</b>	<b>Time stamp</b>
<b>1</b>	<b>77</b>	<b>(d t t\$4 r det rmin\$ or s ns\$3) n ar3 (stati near3 (imbalan or unbalan ))</b>	<b>USPAT; US-PGPUB</b>	<b>2003/10/20 08:08</b>
<b>2</b>	<b>114</b>	<b>(dete t\$4 r determin\$ or sens\$3) near3 (dynamic near3 (imbalance or unbalance))</b>	<b>USPAT; US-PGPUB</b>	<b>2003/10/20 08:08</b>
<b>4</b>	<b>27</b>	<b>((detect\$4 or determin\$ or sens\$3) near3 (static near3 (imbalance or unbalance))) same ((detect\$4 or determin\$ or sens\$3) near3 (dynamic near3 (imbalance or unbalance)))</b>	<b>USPAT; US-PGPUB</b>	<b>2003/10/20 08:09</b>
<b>5</b>	<b>38</b>	<b>(detect\$4 or determin\$ or sens\$3) near3 (static near3 (imbalance or unbalance))</b>	<b>EPO; JPO; DERWENT</b>	<b>2003/10/20 08:08</b>
<b>6</b>	<b>58</b>	<b>(detect\$4 or determin\$ or sens\$3) near3 (dynamic near3 (imbalance or unbalance))</b>	<b>EPO; JPO; DERWENT</b>	<b>2003/10/20 08:09</b>
<b>7</b>	<b>0</b>	<b>((detect\$4 or determin\$ or sens\$3) near3 (static near3 (imbalance or unbalance))) same ((detect\$4 or determin\$ or sens\$3) near3 (dynamic near3 (imbalance or unbalance)))</b>	<b>USPAT; US-PGPUB</b>	<b>2003/10/20 08:09</b>

DERWENT-ACC-NO: 1981-D9193D

DERWENT-WEEK: 198118

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TITLE: Balancing rotating body in  
two or more planes - is by  
measuring oscillator of rod  
spring mounted bearings

INVENTOR: HIMMLER, G

PATENT-ASSIGNEE: GEBR HOFMANN GMBH [HOFMN]

PRIORITY-DATA: 1979DE-2942379 (October 19, 1979)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE
LANGUAGE		MAIN-IPC
DE 2942379 A		April 23, 1981
N/A	000	N/A

INT-CL (IPC): G01M001/04

ABSTRACTED-PUB-NO: DE 2942379A

BASIC-ABSTRACT:

The balancing machine is esp. for rotors with elastic shaft characteristics and enables balancing in two or more planes. It has a virtually isotropic rotary bearing and is economically constructed. Imbalances are rapidly and reliably determined in magnitude and direction in two or more planes.

The rotation bearing is guided by two spring systems of rod springs. The first consists of three rods (2) resting on the base plate and parallel to and equally spaced about the rotation axis. The first system supports the second which consists of three inclined rod springs spaced about the rotation axis at the same angular separation as the first system rod springs. The directions of the rod springs (5) of the second system intersect those of the first system on the rotation axis. The oscillations of the rotary bearing are sensed and converted into an electronic measurement signal.

DERWENT-CLASS: S02

EPI-CODES: S02-J05;